

DESCRIPTION OF WORK; N 13th Improvement project - 2000

The work to be accomplished in the N. 13th ave. improvement project is as follows.

- 1) Locate and protect water meters, valves, sewer tap markers and fire hydrant, see figure 1.
- 2) Excavate approximately 500 feet of roadway to remove unsatisfactory fill and topsoil. The contractor will be responsible for removal and disposal of the excavated materials. The excavation depth shall be such as to allow the elevation of the outside edge or the roadway to be at the nominal elevation of the surrounding land.
- 3) Construct roadway, (22 feet wide) and shoulders (10 feet wide) per figure 2. Roadway and shoulder base shall be 8" deep of 4" minus (pit run basalt), with a leveling course 4" deep of 1-1/2" minus crushed pit run and a finish course 2" deep of 3/4" minus crushed rock.
- 4) Construct drainage swales on either side of roadway in conjunction with the shoulders, figures 1 & 2. Swales are to be constructed in conjunction with the shoulders and in a manner so as to allow traffic to conveniently park on the road way shoulders.
- 5) Install culverts in drainage swales at the 7 existing driveways, figure 3. Extended culverts will be required to maintain driveway, parking and landscape architecture as show in the figure 3.
- 6) Install catch basin in existing culvert on Hartford at west side of construction. The catch basin may be constructed in place or prefabricated. The existing culvert is to be opened in-line with the drainage swale along the west side of the roadway. The catch basin shall be installed to allow the run-off in this drainage to run into the culvert at Hartford. The basin cover plate shall be constructed and installed in a manner that will not cause a hazard to bicycle traffic.
- 7) Install sewer manhole in existing sewer line, approximate location as shown in figure 2. The manhole location will be determined by the City Public Works Director. The design depth of the manhole will be determine after the street elevation is known. The manhole shall be 4 feet in diameter with a 2' cover and may be prefabricated concrete with channeled base and in-flow/out/flow gaskets or made up of sealed jointed concrete rings with a poured in-place concrete base.
- 8) Reset water meters, valves, sewer tap markers and fire hydrant and manhole to finished street/shoulder elevations as necessary. Valve boxes and meter boxes located in driveways and parking areas shall be reinstalled such that traffic running over the boxes will not damage the valves, meters and service lines.
- 9) Finish-grade all work and prepare surface for chip-sealing.
- 10) Remove all construction debris, excess gravel/soil and rubble.

All work shall be done in a manner so as to minimize the inconvenience to the property owners, and shall not prevent property owners from accessing their residences. The contract work shall be completed within 21 calendar days, and shall be completed on or before August 31, 2000.

Figure 1 is a detailed site plan for a water treatment facility. The plan shows a central horizontal channel labeled "N 13th" with a width of 60 feet. To the north of the channel, there is a "Channel surface drainage into existing ditch" with a width of 22 feet. To the south of the channel, there is an "Open existing culvert and install catch basin to accept surface water" with a width of 42 feet. The plan includes several "wtr meter" locations, a "wtr valve", a "fire hydrant", and a "wtr top marker". A "sewer manhole" is also indicated. The plan is divided into sections with dimensions: 120, 125, 125, and 130 feet. A north arrow points towards the top right of the plan.

FIGURE 1

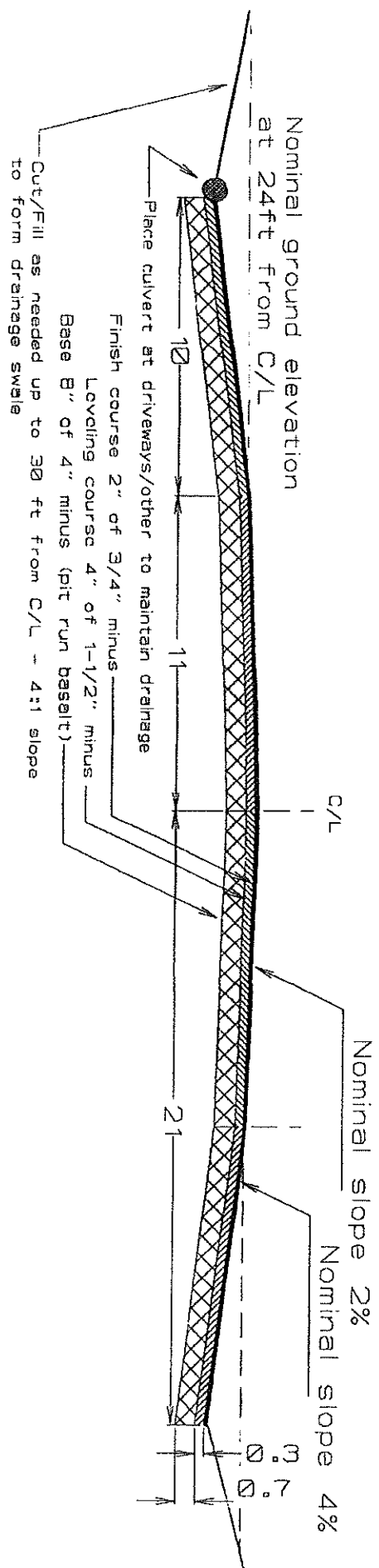


FIGURE 2

FIGURE 3